

COMPUTER SCIENCE B.S.

Four Year Plan

Disclaimer: This *sample Four Year Plan* is provided as a guide for the recommended sequencing of courses. Vanguard University requires that students complete a minimum of 120 units of required course work as outlined on the Requirements tab in order to receive a Bachelor of Arts, Bachelor of Music, Bachelor of Science, or Bachelor of Science in Nursing degree. It is the student's responsibility to confirm with the department the course rotation before enrolling in courses. If applicable, please note the footnotes at the bottom of the page for additional information related to courses listed in a particular year and term. Questions, contact the Department of Physical Sciences and Applied Mathematics.

Study Abroad Participation: Students interested in participating in the university's Study Abroad programs are encouraged to reach out to the Global Education and Outreach Office (studyabroad@vanguard.edu) for more information and collaboration in their academic course planning. Students using Education and Training Benefits through the U.S. Department of Veteran Affairs are encouraged to also reach out to the School Certifying Official (veteranscertifyingofficial@vanguard.edu) for more information regarding how benefits can be applied.

Course	Title	Units
Year 1 Term 1		
CORE-100C	Cornerstone	1
MATH-180C	Calculus 1	4
ENGL-120C	Persuasive Writing	3
NT-101C	New Testament Survey	3
CSCI-110C	Introduction to Computer Science	4
Units		15
Year 1 Term 2		
MATH-181C	Calculus II	4
CSCI-208	Java Programming	4
HIST-PLHD	History Core Requirement	3
THEO-101C	Foundations of Christian Life	3
KINE-148C	Lifetime Fitness and Wellness Lecture	3
Units		17
Year 2 Term 1		
CSCI-217	Database Systems 1	3
MATH-265C	Intro to Statistical Methods	3
CSCI-205	Cybersecurity	3
COMM-201C	Speech Composition and Presentation	3
SOC-PLCR	Social Science Core Curriculum Req'm't	3
Units		15
Year 2 Term 2		
MATH-285	Introduction to Advanced Mathematics	3
CSCI-218	Python Programming	4
ENGL-220C	Researched Writing	3
OT-201C	Old Testament Survey	3

SOC-PLCR	Social Science Core Curriculum Req'm't	3
Units		16
Year 3 Term 1		
MATH-300	Linear Algebra	3
MATH-375	Discrete Mathematics	3
CSCI-317	Data Structures	4
CSCI-330	Introduction to Operating Systems	3
ENGL-230C	Literature and the Human Experience	3
Units		16
Year 3 Term 2		
THEO-300C	Developing a Christian World View	3
CSCI-302	Algorithm Design and Applications	3
CSCI-305	Programming Languages	3
HIST-PLCR2	History Core Requirement (World Civ)	3
FINA-PLCR	Fine Arts Core Curriculum Requirement	3
Units		15
Year 4 Term 1		
PSCI-PLCR2	Physics - Phys2/Lab or Elect/Mag	4
CSCI-415	Computer Architecture	3
CSCI-216	Intro to Web Programming	4
CSCI-ELECT	CSCI/MATH Elective	3
Units		14
Year 4 Term 2		
CSCI-325	Introduction to Networks	3
CSCI-499C	Computer Science Capstone	3
CSCI-411	Software Engineering 1	3
CSCI-425	Computing Theory	3
CHIS-400C	Christian Heritage	3
Units		15
Total Units		123

